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APPLICATION NO. FILING DATE		G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/025,723	12/18/2001		Jeffrey Scott Hepburn	198-1276	2242
22844	7590	06/29/2005		EXAMINER	
		INOLOGIES, L E TOWERS EAS	TRAN, BINH Q		
	LANE BLVD		ART UNIT	PAPER NUMBER	
DEARBOR	N, MI 48126	5	3748		
				DATE MAILED: 06/29/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summan	10/025,723	HEPBURN ET AL.					
Office Action Summary	Examiner	Art Unit					
	BINH Q. TRAN	3748					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C.§ 133).					
Status							
1) Responsive to communication(s) filed on 21 Ap	<u>oril 2005</u> .						
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL. 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowan	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-7 and 10-18</u> is/are rejected.)⊠ Claim(s) <u>1-7 and 10-18</u> is/are rejected.						
7)⊠ Claim(s) <u>8 and 9</u> is/are objected to.	*						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119		· .					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment/s)							
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	ratent Application (P10-152)					
S. Patent and Trademark Office	,						

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DETAILED ACTION

This office action is in response to the amendment filed April 21, 2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-7, and 10-18 are rejected under 35 U.S.C. 102 (b) as being anticipated by Hirota et al. (Hirota) (Patent Number 6,233,925).

Regarding claims 1, 10-11, and 15, Hirota discloses a system and method for controlling a temperature of an emission control device (e.g. 11, 80) receiving exhaust gases from an engine (1), the device (e.g. 11, 80) being coupled adjacent and downstream of an oxidation catalyst (80), said system comprising: a reductant valve (e.g. 124, 126) selectively supplying reductant to said exhaust gases responsive to a first signal; a throttle valve (e.g. 117, 21) controlling flow of said exhaust gases to said oxidation catalyst responsive to a second signal; and a controller (20) operably connected to said reductant valve and said throttle valve, said controller generating said first and

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second signals to control a mixture of said exhaust gases and said reductant flowing into said oxidation catalyst to control a temperature of said emission control device (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Regarding claims 2 and 16, Hirota further discloses that the temperature is controlled while said mixture is rich of stoichiometry and NOx is being removed from said emission control device (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Regarding claims 3 and 17, Hirota further discloses that the temperature is controlled while said mixture is rich of stoichiometry and SOx is being removed from said emission control device (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Regarding claims 4 and 18, Hirota further discloses that the temperature is controlled while said mixture is lean of stoichiometry and said emission control device is oxidizing particulate matter (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Regarding claim 5, Hirota further discloses that the step of indicating when NOx needs to be removed from said emission control device (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Regarding claim 6, Hirota further discloses that the step of indicating when SOx needs to be removed from said emission control device (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Regarding claim 7, Hirota further discloses that the step of indicating when particulate matter needs to be removed from said emission control device (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

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Regarding claim 12, Hirota further discloses that the emission control device comprises a

NOx trap (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Regarding claim 13, Hirota further discloses that the emission control device comprises a

combined NOx trap-particulate filter (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23,

lines 1-47).

Regarding claim 14, Hirota further discloses that the a temperature sensor (28) generating a

third signal indicative of a temperature in said oxidation catalyst, said third signal being received by

said controller (e.g. See col. 20, lines 31-67; cols. 21-22, lines 1-67; col. 23, lines 1-47).

Allowable Subject Matter

Claims 8-9 are objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and any

intervening claims.

Since allowable subject matter has been indicated, applicant is encouraged to submit formal

drawings in response to this Office action. The early submission of formal drawings will permit the

Office to review the drawings for acceptability and to resolve any informalities remaining therein

before the application is passed to issue. This will avoid possible delays in the issue process.

Response to Arguments

Applicant's arguments filed April 21, 2005 have been fully considered but they are not

completely persuasive. Claims 1-18 are pending.

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Applicant's cooperation in explaining the claims subject matter more specific to overcome

the claim rejection is appreciated.

Applicant's arguments with respect to claims 1-18 have been considered but are moot in

view of the new ground(s) of rejection as discussed above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The

examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (703) 872-9306 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

June 25, 2005

Binh Q. Tran

Patent Examiner

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